		PC	CT/GB2004/005266	
a. classif IPC 7	FICATION OF SUBJECT MATTER C12N9/24 C12N9/26 C12P19/	04		
According to	International Patent Classification (IPC) or to both national classific	cation and IPC		
	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system followed by classificat ${\tt C12N}$	ilon symbols)		
Documentati	ion searched other than minimum documentation to the extent that	such documents are included	i in the fields searched	
Electronic da	ata base consulted during the international search (name of data base	ase and, where practical, sea	arch terms used)	
EPO-In	ternal, EMBASE, WPI Data, PAJ			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
X	EP 1 211 320 A (UNIVERSITY OF BR COLUMBIA) 5 June 2002 (2002-06-0 page 4, lines 10-14,49-51	1-14		
x	MAYER C ET AL: "Directed evolut glycosynthases from Agrobacteriu beta-glucosidase: a general scredetect enzymes for oligosacchari synthesis" CHEMISTRY AND BIOLOGY, CURRENT B LONDON, GB, vol. 8, no. 5, May 2001 (2001-05437-443, XP002273567 ISSN: 1074-5521 pages 439-440	1-14		
		-/		
X Furt	her documents are listed in the continuation of box C.	χ Patent family mer	mbers are listed in annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but		*T' tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&' document member of the same patent family Date of mailing of the international search report		
1	March 2005	14/03/200	14/03/2005	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2260 HV Rijswijk Tet (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Roscoe,	R	

ategory °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(WITHERS S G ET AL: "Mechanistic consequences of mutation of the active site nucleophile Glu 358 in Agrobacterium 'beta!-glucosidase" BIOCHEMISTRY 1992 UNITED STATES, vol. 31, no. 41, 1992, pages 9979-9985, XP002319500 ISSN: 0006-2960 the whole document	1-14
X	VOORHORST WILFRIED G B ET AL: "Characterization of the celB gene coding for beta-glucosidase from the hyperthermophilic archaeon Pyrococcus furiosus and its expression and site-directed mutation in Escherichia coli" JOURNAL OF BACTERIOLOGY, WASHINGTON, DC, US, vol. 177, no. 24, 1995, pages 7105-7111, XP002159355 ISSN: 0021-9193 the whole document	1-14
A	WITHERS S G: "Mechanisms of glycosyl transferases and hydrolases" CARBOHYDRATE POLYMERS, APPLIED SCIENCE PUBLISHERS, LTD. BARKING, GB, vol. 44, no. 4, April 2001 (2001-04), pages 325-337, XP004314871 ISSN: 0144-8617 the whole document	
X,L	LAWSON S L ET AL: "Mechanistic consequences of replacing the active-site nucleophile Glu-358 in Agrobacterium sp. beta-glucosidase with a cysteine residue." THE BIOCHEMICAL JOURNAL. 15 FEB 1998, vol. 330 (Pt 1), 15 February 1998 (1998-02-15), pages 203-209, XP001205446 ISSN: 0264-6021	1-14
X L	the whole document Demonstrates that the meaning of a non-nucleophilic residue is ambiguous. In this document, Asp and Gln are incapable of functioning as nucleophiles. Contrast with appl. p.8, 1.7-28 page 203, column 2	1-14 1,2,4-14

		Relevant to claim No.
ategory °	CRAUON OF COCUMENT, WITH INCICATION, WHERE APPROPRIATE, OF THE FERENCE PASSAGES	neisvant to Califf No.
calegory o	Correction of document, with indication, where appropriate, of the relevant passages Correction of the beta-glycosidase from the thermophilic archaeon Sulfolobus solfataricus" FEBS LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 509, no. 3, 14 December 2001 (2001–12–14), pages 355–360, XP004327002 ISSN: 0014–5793 the whole document	Relevant to claim No.

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	n regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ention, the international search was carried out on the basis of:
	a.	type of material X a sequence listing table(s) related to the sequence listing
	b.	format of material X in written format X In computer readable form
	c.	ime of filing/furnishing X contained in the international application as filed X filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Add	ditional comments:

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1211320	A	05-06-2002	CA AT AU CA WO DE DE EP EP	2165041 A1 220720 T 722220 B2 1135497 A 2238966 A1 9721822 A2 69622429 D1 69622429 T2 1211320 A2 0870037 A2 2000501607 T	13-06-1997 15-08-2002 27-07-2000 03-07-1997 19-06-1997 19-06-1997 22-08-2002 28-11-2002 05-06-2002 14-10-1998 15-02-2000